B6. Cg (ROSA) 26 Sor/J

Stock No: 007906 | Ai6 or Ai6(RCL-ZsGreen)

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Live mice available in varying quantities. Ask Customer Service for details.
Also Known As: Ai6 or Ai6(RCL-ZsGreen)

Ai6 is a Cre reporter allele designed to have a loxP-flanked STOP cassette preventing transcription of a CAG promoter-driven enhanced green fluorescent protein variant (ZsGreen1) - all inserted into the Gt(ROSA)26Sor locus. Ai6 mice express robust ZsGreen1 fluorescence following Cre-mediated recombination.

Donating Investigator
Hongkui Zeng, Allen Institute for Brain Science

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**GENETIC OVERVIEW**

<table>
<thead>
<tr>
<th>Genetic Background</th>
<th>Generation</th>
</tr>
</thead>
<tbody>
<tr>
<td>N5F2pN2F4</td>
<td>(2019-12-27 00:00:00)</td>
</tr>
</tbody>
</table>

**Gt(ROSA)26Sor<sup>tm6(CAG-ZsGreen1)Hze</sup>**

<table>
<thead>
<tr>
<th>Allele Type</th>
<th>Gene Symbol</th>
<th>Gene Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Targeted (Conditional ready (e.g. floxed), Reporter)</td>
<td>Gt(ROSA)26Sor</td>
<td>gene trap ROSA 26, Philippe Soriano</td>
</tr>
</tbody>
</table>

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**RESEARCH APPLICATIONS**

Research Tools
Neurobiology Research

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**BASE PRICE**
Starting at:

$255.00 Domestic price for female 4-week
Ai6 mice hemizygous for this Rosa-CAG-LSL-ZsGreen1-WPRE conditional allele are viable and fertile. A loxP-flanked STOP cassette is designed to prevent high transcription levels of the downstream enhanced green fluorescent protein variant ZsGreen1 (see below). When bred to mice that express Cre recombinase, the resulting offspring will have the STOP cassette deleted in the cre-expressing tissue(s) - resulting in high expression of ZsGreen1. Because this CAG promoter-driven reporter construct is inserted into the Gt(ROSA)26Sor locus, ZsGreen1 expression is determined by which tissue(s) express Cre recombinase. These Ai6 mice are useful as a Cre reporter strain; expressing the enhanced green fluorescent protein, ZsGreen1, following Cre-mediated recombination.

Importantly, some ZsGreen1 expression may be present prior to introduction of Cre recombinase - but the ZsGreen1 expression levels after Cre recombination are significantly greater than those baseline levels. As such, it is recommended that researchers include Cre-negative Ai6 controls to establish the baseline ZsGreen1 levels in their experiments.

The donating investigator reports ZsGreen1 expression following Cre recombinase exposure can be detected by fluorescence and mRNA (in situ hybridization). Bright fluorescence is observed mainly in cell bodies.

Of note, the FRT sites flanking the mutation allow for additional targeted replacement of the reporter sequences through Flp-mediated recombination if so desired. Similarly, the attB/attP-flanked selection cassette may be removed by introduction of the site-specific bacteriophage PhiC31 integrase if so desired.

For characterization information, see images at the Allen Institute for Brain Science website (Ai6 images).
Genotyping Protocols
End Point Analysis: Gt(ROSA)26Sor-tm6(CAG-ZsGreen1)Hze-Probe
Standard PCR: Gt(ROSA)26Sor-tm6(CAG-ZsGreen1)Hze
Genotyping resources and troubleshooting

Breeding Considerations
When maintaining a live colony, homozygous mice may be bred.

Additional Breeding and Husbandry Support

Mating System
Homozygote x Homozygote

Citation
When using the Ai6 or Ai6(RCL-ZsGreen) mouse strain in a publication, please cite the originating article(s) and include JAX stock #007906 in your Materials and Methods section.

Animal Health Reports
Facility Barrier Level Descriptions

Pricing & Availability
Live mice available in varying quantities. Ask Customer Service for details.

Available Now

<table>
<thead>
<tr>
<th>AGE</th>
<th>SEX</th>
<th>GENOTYPE</th>
<th>PRICE</th>
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</thead>
<tbody>
<tr>
<td>4 weeks</td>
<td>Female</td>
<td>Homozygous for Gt(ROSA)26Sor tm6(CAG-ZsGreen1)Hze</td>
<td>$255.00</td>
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<tr>
<td>4 weeks</td>
<td>Male</td>
<td>Homozygous for Gt(ROSA)26Sor tm6(CAG-ZsGreen1)Hze</td>
<td>$255.00</td>
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<tr>
<td>5 weeks</td>
<td>Female</td>
<td>Homozygous for Gt(ROSA)26Sor tm6(CAG-ZsGreen1)Hze</td>
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<tr>
<td>5 weeks</td>
<td>Male</td>
<td>Homozygous for Gt(ROSA)26Sor tm6(CAG-ZsGreen1)Hze</td>
<td>$255.00</td>
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<tr>
<td>6 weeks</td>
<td>Female</td>
<td>Homozygous for Gt(ROSA)26Sor tm6(CAG-ZsGreen1)Hze</td>
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<tr>
<td>6 weeks</td>
<td>Male</td>
<td>Homozygous for Gt(ROSA)26Sor tm6(CAG-ZsGreen1)Hze</td>
<td>$255.00</td>
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<tr>
<td>7 weeks</td>
<td>Female</td>
<td>Homozygous for Gt(ROSA)26Sor tm6(CAG-ZsGreen1)Hze</td>
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<tr>
<td>7 weeks</td>
<td>Male</td>
<td>Homozygous for Gt(ROSA)26Sor tm6(CAG-ZsGreen1)Hze</td>
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<tr>
<td>8 weeks</td>
<td>Female</td>
<td>Homozygous for Gt(ROSA)26Sor tm6(CAG-ZsGreen1)Hze</td>
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<tr>
<td>8 weeks</td>
<td>Male</td>
<td>Homozygous for Gt(ROSA)26Sor tm6(CAG-ZsGreen1)Hze</td>
<td>$255.00</td>
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